8.2 Equations Involving Multiplication and Division

**Reciprocal- Two nonzero numbers whose product (answer to multiplication problem) is 1**

**Ex. 2 , 9 1 4 (4)**

**9 2 4, 1**

Write the reciprocal of these numbers

4 reciprocal =

5,

2 , reciprocal =

4 reciprocal =

11,

Multiplication and division are opposite operations

* Do the opposite operation to get the unknown alone, remember- what you do to one side you do to the other side

Solve the equation. Check your solution by plugging the number back in to the equation.

1. 12a = 48

a=

1. r **= 8**

4

1. 1.5 = t

3

1. 5 = 5

6 x

1. 3 = -2

4y

1. Write the equation and solve it for the problem.

Draw a picture to show how you are doing the problem.

The area of a rectangle is 224 square inches. The width of the rectangle is 14 inches. What is the length of the rectangle?